



Gulf of Mexico Harmful Algal Bloom Bulletin

28 April 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: April 25, 2005

Conditions: A harmful algal bloom has been identified in Manatee and northern Sarasota Counties to the city of Sarasota. Patchy very low impacts are possible in Manatee County and northern Sarasota County to Sarasota City today through the weekend, with the possibility for patchy moderate to high impacts in Manatee County and low impacts in northern Sarasota County Saturday night. The bloom continues to dissipate along the coast.

Analysis: SW Florida - Recent imagery is obscured by clouds. Imagery from April 25 showed chlorophyll concentrations elevated to $4.7 \mu\text{g/L}$ outside Tampa Bay at $27^{\circ}37'N$, $82^{\circ}45'W$. Little to no movement has likely occurred since this image was taken. No new samples are available. Offshore winds today through the weekend should minimize impacts, with the exception of Saturday night when winds become southwesterly. Movement of the bloom continues to be constricted by the bay systems. Intensification and expansion of the bloom outside the bay systems is unlikely through Sunday.

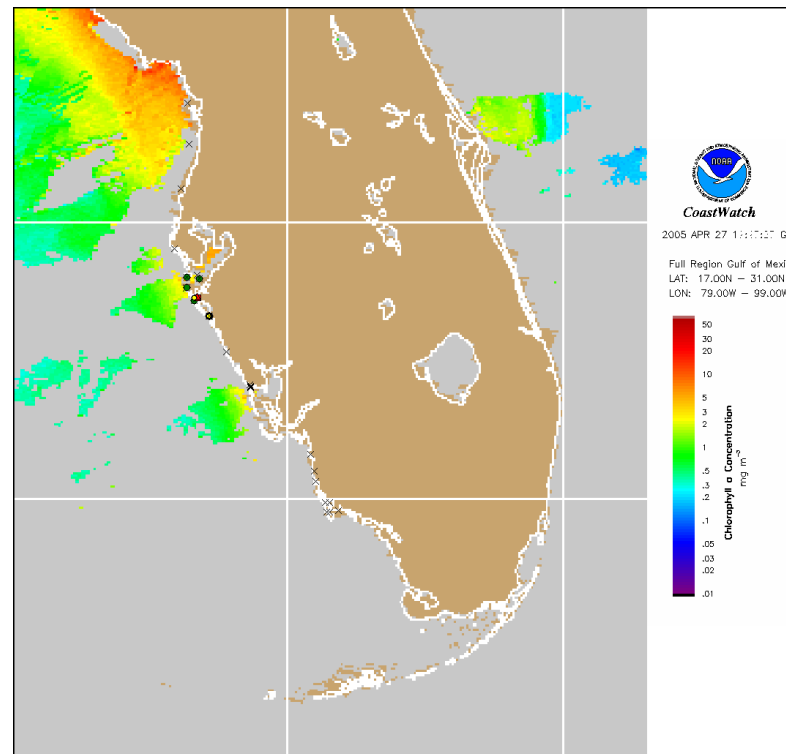
Cedar Key: FWRI reported a visual sighting of reddish discoloration 3-5 miles west of Cedar Key on April 13. Imagery continues to indicate a large band of chlorophyll along the coast elevated up to $14.5 \mu\text{g/L}$ just southwest of Cedar Key at $29^{\circ}3'N$, $83^{\circ}6'W$ and $17.3 \mu\text{g/L}$ to the east at $29^{\circ}2'N$, $83^{\circ}0'W$. The feature trails to the south with an elevated high near $11 \mu\text{g/L}$ at $28^{\circ}45'N$, $83^{\circ}9'W$ (approximately 50 km/30 miles offshore of Crystal River). Sampling recommended.

Keys: No recent samples or imagery are available in the Keys. Imagery indicates elevated chlorophyll levels above $6 \mu\text{g/L}$ northwest of Marathon ($24^{\circ}48'N$, $81^{\circ}15'W$) as of April 25. Little movement has

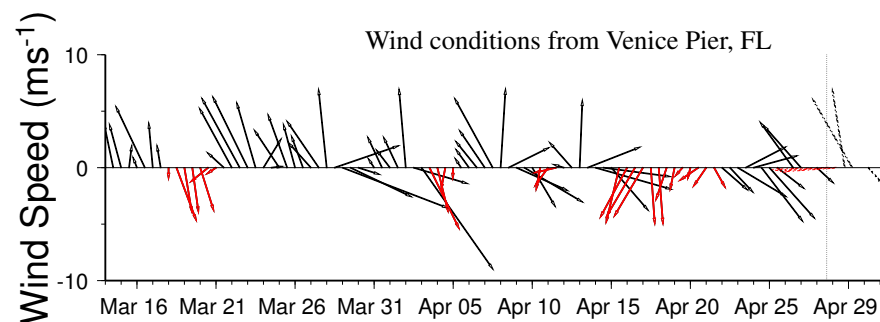
Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. These data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Distribution for military, or commercial purposes is NOT permitted.
3. There are restrictions on Internet/Web/public posting of these data.
4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.

likely occurred. Sampling recommended. ~Fisher, Bronder

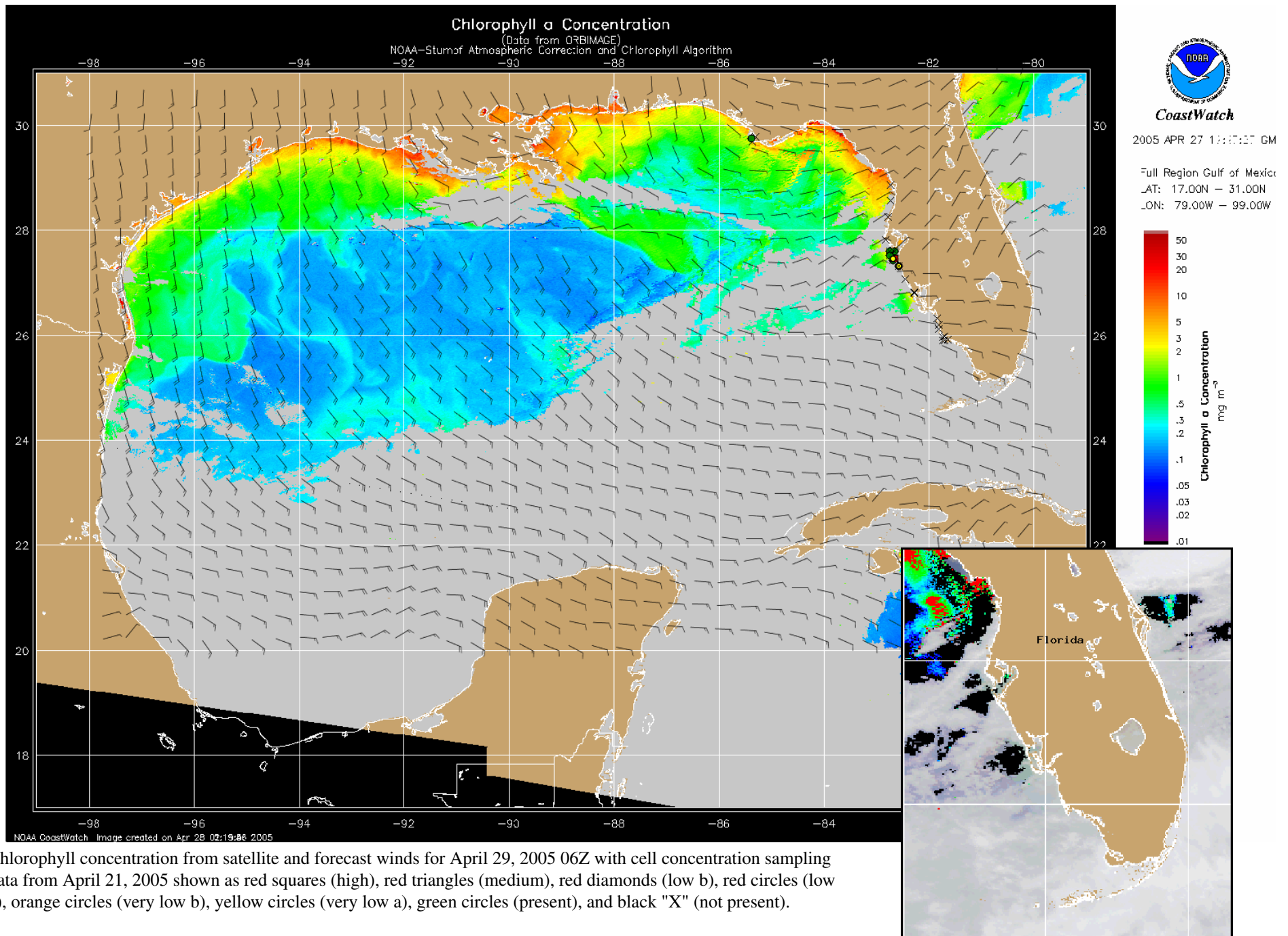


Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from April 21, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Moderate easterlies (15kts, 8m/s) will weaken tonight and shift southeasterly. Southerly winds up to 15kts expected Friday through Saturday, becoming milder southwesterlies Saturday night. East winds (15kts) forecast for Sunday, shifting southeasterly Monday at 10-15kts (5-8m/s).



Chlorophyll concentration from satellite and forecast winds for April 29, 2005 06Z with cell concentration sampling data from April 21, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis and image for interpretation)

